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Nr.23 4 pages **15 June 2008**

Scientific Note:

To the souls of the Turkish Martyrs

Second attempt for determining the *Lepidoptera* fauna of Kozluk with notes on some other insects of the District (Batman Prov., East Turkey) - II

Muhabbet Kemal Ahmet Ömer Koçak

Results of the first attempt by the authors to Kozluk Lepidoptera fauna were published in Nr. 17 of this serial¹. In that publications totally 44 species were listed for Batman Province. In the previous part of this study², some information about the Kozluk District and its biodiversity were presented with illustrations. The present study deals with the first lepidopterological results of this survey. Totally 58 diurnal Lepidopteran species recorded in the Kozluk district are given.

The studied localities³ in Kozluk District and their recorded diurnal Lepidopteran lists are as follows;

1- Kozluk, 2- Yukarıalıçlı⁴, 3- Yazılı⁵, 4- road to Yenidoğan⁶, 5- North West of Kozluk⁷, 6-

¹ Kemal, M., Koçak, A.Ö. & K.Akın, 2008, Butterflies of Batman Province (East Turkey) (Lepidoptera). Cesa News 17: 1-6, 7 figs.

² Kemal,M. & A.Ö.Koçak, 2008, Second attempt for determining the *Lepidoptera* fauna of Kozluk with notes on some other insects of the District (Batman Prov., East Turkey) – I. *Cesa News* 20: 1-15, 26 figs.; *ibid.* 21: 1-15, 28 figs.; *ibid.* 22: 1-13, 25 figs. ³ see Cesa News 20, maps 1 & 2.

⁴At the locality, Yukarıalıçlı the following species of 4 crepuscular moth and butterflies were recorded on 6.6.2008: Catocala abacta (observed), Eogenes alcides (1 $\stackrel{\circ}{\circ}$), Melanargia grumi (1 $\stackrel{\circ}{\circ}$), Pseudochazara anthelea ssp. selcuki (8 $\stackrel{\circ}{\circ}$).

⁵ At the locality, Yazılı (700m) the following 20 species of butterflies were recorded on 7.6.2008: Argynnis (Pandoriana) pandora (1 $^{\circ}$), Brintesia circe (1 $^{\circ}$), Celastrina argiolus (2 $^{\circ}$), Cigaritis uigurica (2 $^{\circ}$), Coenonympha saadi (3 $^{\circ}$), Euapatura mirza (1 $^{\circ}$), Gonepteryx farinosa (1 $^{\circ}$), Lampides boeticus (1 $^{\circ}$), Limenitis reducta (1 $^{\circ}$), Lycaena (Alciphronia) alciphron (1 $^{\circ}$), Maniola telmessia (1 $^{\circ}$), Melanargia grumi (6 $^{\circ}$ $^{\circ}$), Muschampia poggei (1 $^{\circ}$), Plebejus (Kretania) carmon (1 $^{\circ}$), Pseudochazara anthelea (1 $^{\circ}$), Satyrium marcidum (4 $^{\circ}$ $^{\circ}$), Spialia (Neospialia) orbifer (1 $^{\circ}$), Tarucus balkanicus (2 $^{\circ}$), Thymelicus sp. (2 $^{\circ}$), Turanana endymion (2 $^{\circ}$).

South of Armutlu⁸, 7- Upper Geçitaltı (1550m), 8- Natopa, 9- Çarokhan⁹, 10- Upper Geçitaltı (1430m).

A short evaluation of the specific composition of the two localities at Geçitaltı

In the vicinity of Geçitaltı, the authors studied four different sites (nr.7-10, see above). Among them Upper Geçitaltı (nr.7) and Natopa (nr.8) are better investigated. Their results are given in the Table 1.

Table — **1.** Two mountain steppe localities and their specific composition. 1. Upper Geçitaltı (Tragacanthic Astragalus-malacophyllous mountain steppe, dominated by Astragalus, Achillea, Gundelia, Phlomis, Thymus); 2. Natopa (Tragacanthic Astragalus — malacophyllous mountain steppe, dominated by Astragalus, Thymus, Euphorbia, Phlomis, Onosma, Salvia, Marrubium). Faunal similarity of these localities is %53.33.

Aporia crataegi (Pieridae) Chazara briseis (Satyridae) Colias crocea (Pieridae) Lycaena (Alciphronia) alciphron (Lycaenidae) Lycaena (Alciphronia) alciphron (Lycaenidae) Lycaena (Margelycaena) euphratica (Lycaenidae) Lycaena (Thersamonia) kefersteinii (Lycaenidae) Lycaena (Thersamonia) kefersteinii (Lycaenidae) Malacosoma alpicola (Lasiocampidae) Melinargia grumi (Satyridae) Melitaea didyma (Argynnidae) Melitaea fascelis (Argynnidae) Muschampia nomas (Hesperiidae) Muschampia poggei (Hesperiidae) Noctuelia vespertalis (Pyralidae) Vanotuelia vespertalis (Pyralidae) Pieris krueperi (Pieridae) Pieris krueperi (Pieridae) Piebejus (Kretania) carmon (Lycaenidae) Plebejus (Plebejidea) loewii (Lycaenidae) Plebejus (Plebejidea) sephirinus? (Lycaenidae) Pleurota sp. (Oecophoridae) Pseudophilotes vicrama (Lycaenidae) Pyrgus sidae (Hesperiidae) X Rhodostrophia discopunctata (Geometridae) X Satyrium abdominalis (Lycaenidae) X Scopula immistaria (Geometridae) X Spialia orbifer (Hesperiidae) X Spialia orbifer (Hesperiidae) X Thymelicus sp. (Hesperiidae)	List of the diurnal Lepidoptera at Geçitaltı vicinity (alphabetically arranged 32 species in 9 families)	1.Upper Geçitaltı (1560m) 22 species	2.Natopa (1540m) 23 species
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Satyrium abdominalis (Lycaenidae) x Scopula immistaria (Geometridae) x Spialia orbifer (Hesperiidae) x Thymelicus sp. (Hesperiidae) x	Pyrgus sidae (Hesperiidae)	X	X
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Spialia orbifer (Hesperiidae) x Thymelicus sp. (Hesperiidae) x x	Satyrium abdominalis (Lycaenidae)	X	
Thymelicus sp. (Hesperiidae) x x	Scopula immistaria (Geometridae)		X
Thymelicus sp. (Hesperiidae) x x	Spialia orbifer (Hesperiidae)		X
Turanana endymion (Lycaenidae)	Thymelicus sp. (Hesperiidae)	X	X
=	Turanana endymion (Lycaenidae)		X
Zygaena cambysea? (Zygaenidae) x	Zygaena cambysea? (Zygaenidae)	X	
Zygaena purpuralis (Zygaenidae) x x	Zygaena purpuralis (Zygaenidae)	X	X

⁶ At the locality, to Yenidoğan (925m) the following 8 species of butterflies were recorded on 7.6.2008: *Coenonympha saadi* (1 \circlearrowleft), *Hyponephele wagneri* (1 \circlearrowleft), *Lasiommata megera* (1 \circlearrowleft), *Melanargia grumi* (4 \circlearrowleft), *Pseudochazara anthelea ssp. selcuki* (3 \circlearrowleft), *Satyrium marcidum* (1 \circlearrowleft), *Tarucus balkanicus* (1 \circlearrowleft), *Thymelicus hyrax* (1 \circlearrowleft).

⁷ At the locality, Kozluk NW (820m) the following 4 species of butterflies were recorded on 8.6.2008: *Coenonympha saadi* (4 \circlearrowleft), *Euapatura mirza* (observed), *Hyponephele wagneri* (5 \circlearrowleft \updownarrow), *Melanargia grumi* (2 \updownarrow).

⁸ At the locality, South of Armutlu, the following 15 species of butterflies were recorded on 8.6.2008: Argynnis (Pandoriana) pandora (observed), Carcharodus orientalis (13), Colias crocea (observed), Erynnis (Hesperopegasus) marloyi (observed), Euapatura mirza (observed), Hipparchia syriaca (observed), Hyponephele wagneri (13), Lycaena (Thersamonia) kefersteinii (13), Melanargia grumi (33, Muschampia poggei (13), Pieris krueperi (13), Pseudochazara anthelea ssp. selcuki (23, 12), Pseudochazara telephassa (23), Pseudochazara pelopea (13), Thymelicus hyrax (23).

⁹ At the locality, Çarokhan (1560m) the following 6 species of butterflies were recorded on 8.6.2008: Carcharodus lavatherae (13), Muschampia poggei (213), Polyommatus amandus (13), Pyrgus sidae (13), Thymelicus sp. (13), Turanana endymion (13).

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Complementary notes to the list of Geçitaltı: At a place (1430m), the following 10 species were recorded on muddy ground: Coenonympha saadi (Satyridae)*, Cynthia cardui (Argynnidae)*, Hipparchia syriaca (Satyridae)*, Melanargia grumi (Satyridae), Muschampia nomas (Hesperiidae), Muschampia poggei (Hesperiidae), Plebejus (Kretania) carmon (Lycaenidae), Pseudochazara anthelea (Satyridae)*, Pseudochazara pelopea (Satyridae)*, Turanana endymion (Lycaenidae) [additional species were marked with *].

At Çarokhan (1560m) following species were sipping mineral water from the earth: *Muschampia poggei* (*Hesperiidae*), *Thymelicus sp.* (*Hesperiidae*), *Carcharodus lavatherae* (*Hesperiidae*)*, *Turanana endymion* (*Lycaenidae*), and *Polyommatus* (*Plebicula*) *amandus* (*Lycaenidae*)*.

In the vicinity of Geçitaltı, totally 39 species¹o were recorded within few hours in the midday.

Updated List of the Lepidoptera of Kozluk District (Batman Province)

In the list below totally 58 diurnal species, belonging to 10 families, are mentioned. New records to Kozluk district are marked with *. Besides, diurnal moths are marked with #.

- 1. Argynnis (Pandoriana) pandora ([Denis & Schiffermüller],1775) (Argynnidae)*
- 2. Cynthia cardui (Linnaeus,1758) (Argynnidae)*
- 3. Euapatura mirza Ebert,1971 (Argynnidae)
- 4. Limenitis (Azuritis) reducta Staudinger,1901 (Argynnidae)*
- 5. Melitaea (Cinclidia) (phoebe) phoebe (Goeze,1779) (Argynnidae)*
- 6. Melitaea (Didymaeformis) didyma (Esper,[1779]) (Argynnidae)*
- 7. Melitaea (Didymaeformis) fascelis (Fabricius,1787) (Argynnidae)*
- 8. Orthostixis cribraria (Hübner,[1799]) (Geometridae)* #
- 9. Rhodostrophia discopunctata Amsel,1935 (Geometridae)* #
- 10. Scopula immistaria (Herrich-Schäffer,[1852]) (Geometridae)* #
- 11. Carcharodus (Lavatheria) lavatherae (Esper, [1783]) (Hesperiidae)*
- 12. Carcharodus (Reverdinus) orientalis Reverdin,1913 (Hesperiidae)*
- 13. Carcharodus (s.str.) alceae (Esper,[1780]) (Hesperiidae)
- 14. Eogenes alcides Herrich-Schäffer, [1852] (Hesperiidae)
- 15. Erynnis (Hesperopegasus) marloyi (Boisduval,[1834]) (Hesperiidae)*
- 16. Muschampia nomas (Lederer, 1855) (Hesperiidae)*
- 17. Muschampia poggei (Lederer, 1858) (Hesperiidae)*
- 18. Pyrgus sidae (Esper,[1784]) (Hesperiidae)*
- 19. Spialia (Neospialia) orbifer (Hübner,[1823]) (Hesperiidae)
- 20. Thymelicus hyrax (Lederer, 1861) (Hesperiidae)*
- 21. Malacosoma alpicola Staudinger, 1870 (Lasiocampidae)* #
- 22. Celastrina argiolus (Linnaeus,1758) (Lycaenidae)*
- 23. Chilades (Freyeria) trochylus (Freyer,[1843]) (Lycaenidae)
- 24. Cigaritis uighurica Kemal & Koçak,2005 (Lycaenidae)*
- 25. Lampides boeticus (Linnaeus, 1767) (Lycaenidae)*
- 26. Lycaena (Alciphronia) alciphron (Rottemburg,1775) (Lycaenidae)*
- 27. Lycaena (Margelycaena) euphratica (Eckweiler,1989) (Lycaenidae)*
- 28. Lycaena (Thersamonia) kefersteinii (Gerhard,[1850]) (Lycaenidae)*
- 29. Plebejus (Kretania) carmon (Gerhard,[1851]) (Lycaenidae)*
- 30. Plebejus (Plebejides) zephyrinus (Christoph,1884) (Lycaenidae)*
- 31. Polyommatus (Albulina (Plebejidea)) loewii (Zeller,1847) (Lycaenidae)*
- 32. Polyommatus (Aricia (s.str.)) agestis ([Denis & Schiffermüller],1775) (Lycaenidae)
- 33. Polyommatus (s.str. (Plebicula)) amandus (Schneider,1792) (Lycaenidae)*
- *Polyommatus (s.str.) icarus* (Rottemburg,1775) (*Lycaenidae*)

¹⁰ Recorded families with their species are as follows: Argynnidae (4), Geometridae (3), Hesperiidae (6), Lasiocampidae (1), Lycaenidae (11), Pieridae (3), Pyralidae (2), Satyridae (6), Zygaenidae (2).

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Pseudophilotes vicrama (Moore, 1865) (Lycaenidae)* *35*· *36*. Satyrium (Nordmannia) abdominalis (Gerhard,[1850]) (Lycaenidae)* Satyrium (Nordmannia) marcidum (Riley,1921) (Lycaenidae)* *37*. *Tarucus (s.str.) balkanicus (Freyer,[1843]) (Lycaenidae)* 38. Turanana endymion (Freyer,[1850]) (Lycaenidae)* 39. Catocala (s.str.) abacta Staudinger,1900 (Noctuidae)* # 40. Aporia (s.str.) crataegi (Linnaeus,1758) (Pieridae)* 41. Colias (Eriocolias) crocea (Fourcroy,1785) (Pieridae)* 42. Gonepteryx (s.str.) farinosa (Zeller,1847) (Pieridae)* 43. Pieris (Artogeia) krueperi Staudinger,1860 (Pieridae)* 44. Noctuelia vespertalis Herrich-Schäffer,[1855] (Pyralidae)* # 45. Panstegia aerealis (Hübner,1793) (Pyralidae) *# 46. Brintesia circe (Fabricius, 1775) (Satyridae)* 47. Coenonympha (s.str.) saadi (Kollar,[1849]) (Satyridae) 48. Hipparchia (s.str.) syriaca (Staudinger, 1871) (Satyridae)* 49. Hyponephele (s.str. (Turaninephele)) wagneri (Herrich-Schäffer,[1846]) (Satyridae) 50. *5*1. Hyponephele (s.str.) lupina (Costa,[1836]) (Satyridae)* Lasiommata megera (Linnaeus,1767) (Satyridae)* 52. Maniola (Telmessiola) telmessia (Zeller, 1847) (Satyridae)* *53*. Melanargia (Turcargia) grumi Standfuss,1892 (Satyridae)* 54. Pseudochazara (Achazara) anthelea (Hübner, [1824]) (Satyridae) *55*• Pseudochazara (Achazara) telephassa (Geyer, [1827]) (Satyridae)* *5*6. Pseudochazara (s.str.) pelopea (Klug,1832) (Satyridae)* *57*•

Results on the nocturnal species collected in the district will be separately published.

58.

Zygaena (Mesembrynus) purpuralis (Brünnich,1763) (Zygaenidae)* #





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Correspondences should be addressed to: Prof. Dr. Ahmet Ömer Koçak, c/o Yüzüncü Yıl University, Fen-Edebiyat Fakültesi, Biyoloji Bölümü, Kampus, Van / Turkey. - e-mail: a_kocak@lycos.com - cesa_tr@yahoo.com.tr

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